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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/506,669	03/15/2005	Kiyokazu Tanaka	SAKAG0024	4981
24203 GRIFFIN & SZ	7590 06/26/200 IPL, PC	EXAMINER		
SUITE PH-1	,	THEODORE, MAGALI P		
2300 NINTH STREET, SOUTH ARLINGTON, VA 22204			ART UNIT	PAPER NUMBER
			1791	
			MAIL DATE	DELIVERY MODE
			06/26/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Appl	ication No.	Applicant(s)				
Office Action Summary		06,669	TANAKA, KIYOKA	AZU			
		niner	Art Unit				
	Maga	ali P. Théodore	1791				
The MAILING DATE of this com Period for Reply	munication appears o	n the cover sheet with	h the correspondence ad	ldress			
A SHORTENED STATUTORY PERIC WHICHEVER IS LONGER, FROM TH - Extensions of time may be available under the provafter SIX (6) MONTHS from the mailing date of this - If NO period for reply is specified above, the maxim - Failure to reply within the set or extended period fo Any reply received by the Office later than three me earned patent term adjustment. See 37 CFR 1.704	HE MAILING DATE O risions of 37 CFR 1.136(a). In communication. romum statutory period will apply reply will, by statute, cause the onths after the mailing date of the	PF THIS COMMUNIC no event, however, may a rep and will expire SIX (6) MONT he application to become ABA	CATION. ply be timely filed THS from the mailing date of this of the candoned (35 U.S.C. § 133).				
Status							
 Responsive to communication(s This action is FINAL. Since this application is in cond closed in accordance with the p 	2b)⊠ This actionition for allowance ex	cept for formal matte		e merits is			
Disposition of Claims							
4) Claim(s) 1-24 is/are pending in 4a) Of the above claim(s) 5) Claim(s) is/are allowed. 6) Claim(s) 1-4 and 16-19 is/are refered is/are refered is/are subject to refered is/are sub	is/are withdrawn from ejected. objected to. estriction and/or election by the Examiner.	ion requirement.)⊠ accepted or b)⊡	-	miner.			
Replacement drawing sheet(s) incl	-		•				
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Revi 3) Information Disclosure Statement(s) (PTO/SE Paper No(s)/Mail Date 9/3/2004, 3/15/2005, 6	3/08)	Paper No(s)	ummary (PTO-413))/Mail Date formal Patent Application _·				



Application No.

Application/Control Number: 10/506,669 Page 2

Art Unit: 1791

DETAILED ACTION

Claim Objections

1. Claims 5-15 and 20-24 are objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim cannot depend on any other multiple dependent claim. See MPEP § 608.01(n). Accordingly, the claims 5-15 and 20-24 have not been further treated on the merits.

Claim Rejections - 35 USC § 102

- 1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:
 - (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1 and 16 are rejected under 35 U.S.C. 102(b) as being anticipated by Wu (CN 1317283). All references to Wu in this action are to the translation provided.

Regarding claim 1, Wu discloses a method for producing biodegradable chopsticks by mixing wood powder or bamboo powder (p 3 last line), a binder made of starch powder and gum powder, and water (p 3 \P 3) to form a molding material and then molding it (p 4 \P 1 ln 4).

Regarding claim 16, Wu discloses a biodegradable molding material comprising wood powder or bamboo powder (p 3 last line), a binder made of starch powder and gum powder, and water (p 3 ¶ 3) all mixed together (p 4 ¶ 1 ln 4).

Application/Control Number: 10/506,669 Page 3

Art Unit: 1791

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- 4. The factual inquiries set forth in *Graham* **v.** *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 5. Claims 2-4 and 17-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wu.

Regarding claim 2, Wu discloses a method for producing biodegradable chopsticks by mixing wood powder or bamboo powder (p 3 last line), a binder made of starch powder and gum powder, and water (p 3 \P 3) to form a molding material and then molding it (p 4 \P 1 ln 4). Wu discloses that the plant powder accounts for 50 % to 70 % of the mixture's weight, the binder powder (starch plus edible gum) for 18 % to 50 % (p 3 \P 3). The ratio by weight of plant powder to binder powder then is 1-4 to 1. The values between 2:1 and 4:1 fall within those recited by the claim, 2-17:1. Wu does not disclose a ratio by weight of dry ingredients to water of 3-9:1. However, Wu establishes

Page 4

the ratio of water dry ingredients to water as a result-effective parameter by specifying a water content of 0 - 0.5 % (p 3 ¶ 3). Therefore, it would be obvious to an ordinary artisan to optimize the mixture's water content according to the specific application because Wu teaches that the water content must be controlled. Optimizing a result-effective parameter known in the art does not impart patentable distinction to an invention. See MPEP 2144.05 [R-5] II, *In re Boesch*, 617 F.2d 272, 205 USPQ 215 (CCPA 1980).

Regarding claims 3-4, Wu discloses that the plant binder powder is a mixture of starch powder and gum powder (p 3 \P 3).

Regarding claims 17, Wu discloses that the plant powder accounts for 50 % to 70 % of the mixture's weight, the binder powder (starch plus edible gum) for 18 % to 50 % (p 3 ¶ 3). The weight of the binder powder is 1/4 to 1 time the weight of the plant fiber powder. The factors between 1/4 and 1/2 fall within the range of 1/7 to 1/2 recited by the claim. Wu does not disclose a water content of 10-25 %. However, Wu establishes the ratio of water dry ingredients to water as a result-effective ¶meter by specifying a water content of 0 - 0.5 % (p 3 ¶ 3). Therefore, it would be obvious to an ordinary artisan to optimize the mixture's water content according to the specific application because Wu teaches that the water content must be controlled. Optimizing a result-effective parameter known in the art does not impart patentable distinction to an invention. See MPEP 2144.05 [R-5] II, in re Boesch, 617 F.2d 272, 205 USPQ 215 (CCPA 1980).

Art Unit: 1791

Regarding claims 18-19, Wu discloses that the plant binder powder is a mixture of a starch powder and a gum powder (p $3 \ \P \ 3$).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Magali P. Théodore whose telephone number is (571) 270-3960. The examiner can normally be reached on Monday through Friday 9:00 a.m. to 5:30 p.m. EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christina A. Johnson can be reached on (571) 272-1176. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Application/Control Number: 10/506,669 Page 6

Art Unit: 1791

Examiner, Art Unit 1791

/Christina Johnson/

Supervisory Patent Examiner, Art Unit 1791